MODELS: Avco Lycoming R-680-B4 Series, R-680-4 and Military R-680-5, -7, -8, -11, -17

1.C. NUMBER: T.C. 108

Kodel - Lycoming	R-680-4 and B4	K-680-B4B
Type	9RA	
Fating:		
Maximum continuous,		
hp, rpm, at S.L.		
press. alt.	225-2100-S.L.	
Take-off, ho, rpm,		
at full throttle	225-2100	A-
Fuel (minimum octane		
aviation gasoline)	65	→
Fore and stroke, in-	4.625 x 4.5	
Disclacement, cu. in.	680.4	
Compression ratio	5.5:1	
Weight (dry), lbs.	471	495
Fromeller shaft,		
SAE No.	20	
Carturetion	Stromberg NA-R7A carburetor	Stromberg NA-R7B carburetor
	with 2.0625 in. venturi	with 2.0625 in. venturi
Ignition, dual	Scintilla SC-A or SC-A2 magneto	Scintilla DF or DFN magneto
Ignition timing,	•	
deq. BIC	Front 30, Rear 30	Front 34, Rear 30
Certification basis	Type Certificate No. 108 (See NOTE 4)	
NCIES	1, 2, 4	1, 3, 4

- NCTE 1. Maximum permissible cylinder head, barrel, and oil inlet temperatures, 525 degrees F., 300 degrees F., and 200 degrees F., respectively.
- NOTE 2. R-680-B4 engines were formerly designated R-680-4. Serial Nos. 2-751 and 2-752 engines of these models are eligible at 215 hp at 2000 rpm for all operations. The R-680-4 or K-680-B4 may be converted to the R-680-B6 which makes it eligible for use with a controllable pitch propeller.
- NOTE 3. Military model R-680-5 is identical to model R-680-84B. Models R-689-84C, R-680-84D and R-680-84E are similar to model R-680-84B, the differences being noted below. The corresponding military models are indicated in parenthesis.

Mcdel R-680-B4C (R-680-7) R-680-B4D (R-680-8, -11) R-680-B4E (R-680-17) Difference
Includes automatic valve gear lubrication.
490 lbs. (dry) weight includes automatic valve gear lubrication and AN type accessory drives.
512 lbs. (dry) weight includes automatic valve gear lubrication, AN type accessory drive, a redesigned crankshaft and steel link rods.

When a military engine is incorporated in certificated aircraft, its name-plate should be revised to include the pertinent civil model designation and TC No.

NOTE 4. Approval expired 11/2/50. No engines of these models manufactured after the dates shown below or with serial numbers above those indicated, are eligible for use in certification aircraft:

Model	Serial No.	Date
R-680-4 and		
R-680-24 and		
R-680-B4P	8-1619	3/14/39
R-680-54C	2552	7/15/41
R-680-B4C	3935	12/31/41
R-680-B4E	L015483	3/30/44